

ABSTRACT

A multiple LED based lighting device for commercial indoor or outdoor
2 architectural applications is disclosed. The lighting device uses multiple LEDs which are
arranged in a symmetrical array in order to combine their light output. The LEDs are
4 supported in a fixed position and have a conical reflector to assist in focusing the light
output. A heat sink is attached to the LEDs to allow for use of high power for greater
6 light output. The multiple LEDs are mounted relative to an optic fiber which has a core
and cladding material to retain light based on total internal reflection. The light output
8 from the LEDs are cast on the optic fiber which may provide side lighting effects from
the perimeter of the optic fiber or emit light from the opposite end of the optic fiber.